

## APPENDIX 4. 2000 SEMINARS

### ***LABORATORY FOR ATMOSPHERES SEMINAR SERIES***

Professor Graeme Stephens, Colorado State University, "The A-Band Approach to Aerosol and Cloud Properties," January 4.

Dr. Richard Menard, University of Maryland Baltimore County, "Assimilation of Chemical Tracer Observations," January 18.

Dr. Gerald M. Heymsfield, NASA Goddard Space Flight Center, "Studies of Convective Systems and Hurricanes Using ER-2 Doppler Radar," February 1.

Dr. Paul R. Mahaffy, NASA Goddard Space Flight Center, "The Atmosphere of Jupiter - 4 Years After the Galileo Entry Probe," February 15.

Dr. Lorraine A. Remer, NASA Goddard Space Flight Center, "Principles of Remote Sensing of Aerosol from MODIS," March 7.

Dr. William J. Randel, National Center for Atmospheric Research (NCAR), "Low-frequency Global Variations of Stratospheric NO<sub>2</sub>," March 21.

Dr. Joanna Joiner, NASA Goddard Space Flight Center, "Improving the Use of Passive Microwave and Infrared Sounding Information in the GEOS-DAS," April 4.

Dr. James W. Hurrell, National Center for Atmospheric Research (NCAR), "On the Annual Cycle of Climate Change Over the Atlantic," April 18.

Dr. Paul A. Newman, NASA Goddard Space Flight Center, "The SAGE III Ozone Loss and Validation Experiment," May 2.

Dr. William K. Lau, NASA Goddard Space Flight Center, "An Assessment of Regional Climate Anomalies of the 1997-98 El Niño," May 16.

Professor Michael Montgomery, Colorado State University, "Vortex Rossby Waves and Hurricane Dynamics," September 13.

Professor Richard Goody, Harvard University, "Global Climate Benchmarks: Data to Test Climate Models," September 19.

Dr. William K. Lau, NASA Goddard Space Flight Center, "An Assessment of Regional Climate Anomalies of the 1997-98 El Niño," October 3.

Dr. Si-Chee Tsay, NASA Goddard Space Flight Center, "Absorption of Solar Radiation by Clouds: A Second Look at Irradiance Measurements," October 17.

Dr. David H. Rind, NASA Goddard Institute for Space Studies, "Effect of (Various) Climate Changes on the Stratosphere," November 7.

Dr. Jian-Wen Bao, NOAA/ETL, "Numerical Simulation of Air-Sea Interaction Under High Wind Conditions," November 21.

Dr. Edward C. De Fabo, George Washington University, "Potential Impacts on Human Health and the Biosphere From Increased UV-b Radiation Associated with Stratospheric Ozone Depletion," December 5.

Dr. Warwick Norton, Oxford University, "Dynamics and Tracer Transport in the Tropical Lower Stratosphere," December 11.

### **DATA ASSIMILATION OFFICE**

Daniel Kirk-Davidoff, Harvard University, "Tropical Dynamics, Water Vapor, and Upper Troposphere," March 24.

Chris Ding, Lawrence Berkeley Labs, "Using Accurate Arithmetics to Improve Numerical Reproducibility and Stability in Parallel Applications," March 29.

Rolf Reichle, Massachusetts Institute of Technology, "Variational Assimilation of Microwave Radiobrightness Observations for Land Surface Hydrologic Applications," September 5.

Ron Errico, NCAR, "Continuing research on the assimilation of precipitation data," September 14.

Brian Doty, COLA, "GrADS to use DODS servers," September 19.

Richard Goody, Harvard University, "Global Climate Benchmarks: Data to test Climate Models," September 19.

Fekadu Moreda, University of Oklahoma, "Natural Hazards Prediction Using Remote Sensing: Floods, Drought, and Water Quality," October 2.

### **MESOSCALE ATMOSPHERIC PROCESSES BRANCH**

Yvette P. Richardson, University of Oklahoma, "The Influence of Horizontal Variations in Vertical Shear and Low-Level Moisture on Numerically-Simulated Convective Storms," March 13.

Roger Pielke, Colorado State University, "The Role of Land Surface Processes in Cumulus Convective Rainfall-Implications for Weather and Climate," March 30.

Adam H. Sobel, Columbia University, "Modeling Tropical Precipitation in a Single Column," April 3.

T. N. Krishnamurti, Florida State University, "Superensemble Based Skills of Assimilation and Forecasts using TRMM/SSMI Rainrates," April 4.

F. Martin Ralph, NOAA/Environmental Technology Laboratory, "The West Coast Forecast Challenge: Bridging Research and Operations in the CALJET and PACJET Experiments," April 19.

Larry Belcher, Jr., Colorado State University, "Classification of Tropical Precipitation Regimes: A Comparative Analysis of Disdrometer, Profiler, and Multiparameter Radar Measurements," April 25.

Michael Schonhuber, Joanneum Research, Graz, Austria, "Application of the 2D-Video-Distrometer for Remote Sensing and Telecommunication Purposes," May 1.

Joel Tenenbaum, SUNY Purchase, "Informal Report on the EUCOS Experiment, the Christmas 1999 European Storms and the Effects of Automated Aircraft Reports," May 4.

Ming-Jen Yang, Chinese Culture University, "Microphysics and Boundary-Layer Parameterizations in a Simulated Oceanic Convective System," June 26.

Cheng Minghu, Chinese Academy of Meteorological Sciences, "Observations of Heavy Rainfall Events over China using TRMM Data," July 19.

Edward A. Brandes, National Center for Atmospheric Research (NCAR), "Rainfall Estimation with Polarimetric Radar: An Update," July 25.

Jose D. Fuentes, University of Virginia, "Atmospheric Boundary Layer Dynamics and Associated Entrainment Rates of Heat and Water Vapor over a Pasture Site in Amazonia," July 31.

Emmanouil Anagnostou, University of Connecticut, "Satellite Passive Microwave Precipitation Estimation – Relations Evaluated from TRMM Multi-Sensor Precipitation Profile Retrievals," August 4.

Courtney Schumacher, University of Washington, "Kwajalein, the TRMM PR, and Convective-Stratiform Mapping over the Tropics," August 18.

Alexander Khain, The Hebrew University of Jerusalem, "Simulation of Deep Convective Clouds in Clear and Smoky Air," August 25.

Walter Petersen and Robert Cifelli, Colorado State University, "Analysis of TRMM-LBA Convection: A Multi-Scale Perspective," August 28.

Ron Errico, NCAR, "Continuing Research on the Assimilation of Precipitation Data," September 14.

Jeff Hawkins, Naval Research Laboratory, "Tropical Cyclone Structure Via Multiple Passive Microwave Satellite Sensors," October 5.

Kurt Brueske, USAF/University of Wisconsin-Madison and Chris Velden, University of Wisconsin-Madison (CIMSS), "Estimating Tropical Cyclone Intensity Using the NOAA-KLM Advanced Microwave Sounding Unit (AMSU)," October 16.

Robert Tuleya, GFDL/NOAA, "Hurricane Landfall: From a Modeller's Perspective," October 17.

Jean-Luc Redelsperger, NCRS & Meteo-France Joint Laboratory, "Recent Results on the Effects of Tropical Convection on Surface, Ocean and Atmosphere," November 9.

### **CLIMATE AND RADIATION BRANCH**

Yongxiang Hu, NASA Langley Research Center, "Cloud Spatial Correlation Length and its Impact on Anisotropy of Radiances," January 12.

John Ray Bates, Danish Center for Earth System Science, Niels Bohr Institute for Astronomy, "A Dynamical Stabilizer in the Climate System: a Mechanism Suggested by a Simple Model and Supported by GM Experiments," January 27.

Albert Arking, Johns Hopkins University, "The Discrepancy Between Theory and Measurement of Atmospheric Absorption of Solar Radiation and its Impact on Climate Models," February 9.

Georgiy Stenchikov, Rutgers-The State University of NJ, "GCM Simulation of Climate Impact of the 1991 Mt. Pinatubo Eruption," February 23.

C. Adam Schlosser, COLA, "The Potential Impact of Soil Moisture Initialization on Soil-Moisture Predictability and Associated Climate Predictability," March 8.

Brent Holben, NASA GSFC, Biospheric Sciences Branch, "Sun Photometry Networks Past, Present and Future," March 22.

Kwang-Yul Kim, Florida State University, Department of Meteorology, "Surface and Subsurface Variability in the Tropical Pacific Investigated by Cyclostationary EOF Analysis," March 31.

Winston C. Chao, NASA GSFC, Climate & Radiation Branch, "Some Characteristics of the ITCZ," April 12.

Daniel Rosenfeld, Institute of Earth Sciences, The Hebrew University of Jerusalem, "Satellite (TRMM & AVHRR) Measurements of the Impact of Smoke and Regional Pollution on Precipitation," April 17.

Teruyuki Nakajima, Center for Climate System Research, the University of Tokyo, "A Study of Aerosol and Cloud Interaction Phenomenon Using Satellite Remote Sensing and Climate Modelling," April 17.

Xin-Zhong Liang, Illinois State Water Survey, University of Illinois at Urbana-Champaign, "Development of Regional Climate Model for Midwest Applications," April 26.

Chidong Zhang, University of Miami, Rosenstiel School of Marine & Atmospheric Science, "The Bimodality of Tropical upper-Tropospheric Water Vapor: Observations from In-situ and Remote Sensing Measurements," May 10.

Jose Vanderlei Martins, UMBC/JCET, Climate & Radiation Branch, "The Effects of Aerosol Particles in Amazonia: Biogenic versus Biomass Burning Particles," May 24.

Peter Pilewskie, NASA Ames Research Center, "A Moderate Resolution View of the Solar Spectrum in Earth's Atmosphere," June 8.

Siegfried Schubert, NASA GSFC, Data Assimilation Office, "The Seasonal Prediction Problem," June 16.

Pinhas Alpert, Tel Aviv University, "Dust Prediction at Tel Aviv University," August 11.

Knut Dammann, Institute for Atmospheric Physics, GKSS Research Centre, "Aerosol Impact on the Earth Radiation Budget with Satellite Data in Support of the Geostationary Earth Radiation Budget (GERB) Experiment," August 17.

Ming-Dah Chou, NASA GSFC, Climate & Radiation Branch, "Clouds, Radiation Budgets, and Climate as Inferred From Japanese GMS-5 Measurements," September 27.

### **ATMOSPHERIC CHEMISTRY AND DYNAMICS BRANCH**

Wenhan Qin, NASA GSFC/Raytheon, "Hotspot Effect: Modeling and Application," April 26-28.

Xiao Bao Fan, University of Maryland, "Distribution Of Carbon Monoxide In The GOCART Model," July 27.

Dr. Seong-Soo Yum, Desert Research Institute, "Contrasts In Cloud Microphysics Between Continental and Maritime Warm Clouds," August 31.

Dr. Lawrence Coy, NASA GSFC/General Sciences Corporation, "Issues Regarding the Quality of DAO Analyses in the Middle Atmosphere: GEOS-3 And FVDAS," October 20.

Dr. Andrew Dessler, NASA GSFC/ESSIC, "Tracer Correlations In The Tropopause Layer," October 27.

Dr. Steven Sherwood, NASA GSFC/University Space Research Associates, "Evidence Of Rapid Dehydration And Mixing Within A Tropopause Layer," November 3.

Dr. Steven Pawson, NASA GSFC/University Space Research Associates, "Model Study Of The Sources Of Upper Tropospheric Ozone Over The Atlantic, With Emphasis On Interhemispheric Asymmetries," December 1.

Dr. Stephan Kawa, NASA GSFC, "Simulating Observed Ozone Loss In The Northern Hemisphere Winter," December 1.